

MASTER INDEX: DOCKET A-2001-28

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Non-Road Diesel Tier 4 and Non-Road Diesel Tier 3 Technology Review

Subject Matter

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This docket index is a complete record for this rulemaking. Several of these documents are also available in EPA's web-based electronic docket. Certain items in this docket index include reference to an item number in the electronic docket. To view these items in the electronic docket, use cited reference information at the following web site: www.epa.gov/epahome/dockets.htm.

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Control of Emissions from Land-Based Nonroad Diesel Engines
Category II-A: EPA Studies or Contractor Reports

Document Number	Date Recd. In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-A-01	11-13-01	“Regulatory Impact Analysis: Heavy -Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements” EPA-420-R-00-026	12-00
II-A-02	11-20-01	“Regulatory Impact Analysis: Control of Emissions of Air Pollution from Highway Heavy-Duty Engines” EPA420-R-00-010	07-00
II-A-03	11-20-01	“Final Regulatory Impact Analysis: Control of Emissions from Nonroad Diesel Engines EPA420-R-98-016	08-98
II-A-04	12-06-01	“Review of National Ambient Air Quality Standards For Ozone-Assessments of Scientific and Technical Information” EPA-452/R-96-007 OAQPS Staff Paper [copy also in A-99-06-II-B-22]	06-96
II-A-05	12-04-01	“Review of the National Ambient Air Quality Standards for Particulate Matter: Policy Assessment of Scientific and Technical Information” EPA-452/R-96-013 OAQPS Staff Paper [copy also in A-99-06-II-B-23]	07-96
II-A-06	12-04-01	“Health Assessment Document for Diesel Exhaust” EPA/600/8-90/057E	07-00
II-A-07	12-04-01	“National Air Quality and Emissions Trends Report, 1999” [1999 Annual Mean PM 2.5 Concentrations [ug/m3] OAQPS EPA 454/R-01-004	03-01
II-A-08	03-28-02	W. Catell, D. Gill, F.Chimela, AVL International Presented at the AVL International Commercial Powertrain Conference	10-18-19-01
II-A-09	03-28-02	“Cummins to Meet Tier-3 Off-Road Emission standards with current Engine Platforms”	03-19-02
II-A-10		“Electronic Systems and EGR Costs for Nonroad Engines”- Final Report prepared by Louis Browning, ICF Consulting (San Francisco, CA 94111)	12-02-02
II-A-11		Report ISO/TC 70/SC 8 N 309, Date 1999-09-10, ISO/FDIS 8178-9, Secretariat: DIN, “Reciprocating internal combustion engines - Exhaust emission measurement - Part 9: Test cycles and test procedures for test bed measurement of exhaust gas smoke emissions from compression ignition engines operating under transient conditions”	9/10/99
II-A-12		AVL International Commercial Powertrain Conference, Report: “Engine Technology and Application Aspects for Eastmoving Machines and Mobile Cranes” Dr. Eckart Brucker, Liebherr Machines Bulle, SA	10/01

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II-A-13		AVL International Commercial Powertrain Conference, Report: View of OEM Satisfying Diverse International Markets” Mike Hawkins & Bernard Horstmann, CNH Global/New Hollard	10/01
II-A-14		OAQPS Economic Analysis Resource Document, US EPA, OAQPS, Innovative Strategies and Economics Group	4/99
II-A-15		CD-R 80 min/700 mb, “Mass Emission Data Files Used for Nonroad CI NPRM Air Quality Modeling”, Greg Stella, US EPA, OAQPS	2/24/03
II-A-16		Final Report: Economic Analysis of Air Pollution Regulations: Boilers and Process Heaters”, EPA Contract Number 68-D-99-024, Prepared for: John L. Sorrels, US EPA, OAQPS, ISEG, Research Triangle Park, NC, Prepared by: Michael P. Gallaher, Alan C. O’Connor, Brooks M. Depro, RTI, Research Triangle Park, NC	11/2002
II-A-17		“An Assessment of the Potential Impacts of Proposed Environmental Regulations on US Refinery Supply of Diesel Fuel”, Prepared by: T. Ian Moncrieff, W. David Montgomery, Martin T. Ross, Charles River Associates, Inc., Raymond E. Ory, Jack T. Carney, Baker and O’Brien, Inc., Prepared for: American Petroleum Institute, CRA No. DO2316-00	8/2000
II-A-18		Contractor Report: “Economic Benefits of Mitigating Refinery Disruptions, A Suggested Framework and Analysis of a Strategic Fuels Reserve”, California Energy Commission, P600-02-018D	7/2002
II-A-19		Report: “Prospects for Adequate Supply of Ultra Low Sulfur Diesel Fuel in the Transition Period (2006-2007), An Analysis of Technical and Economic Driving Forces for Investment in ULSD Capacity in the US Refining Sector, Prepared for The Alliance of Automobile Manufacturers and The Engine Manufacturers Association Prepared by MathPro	2/26/02
II-A-20		Abstract - Supply Response Under the 1996 Frm Act and Implications for the US Field Crops Sector	7/2000
II-A-21		Costs of Oil Dependence: A 2000 Update, Prepared by the Oak Ridge National Laboratory, Oak Ridge, Tennessee, Managed by UT-Battelle, LLC for the US Department of Energy under contract DE-AC05-00OR22725	5/2000
II-A-22		Office of Management and Budget, Economic Analysis of Federal Regulations Under Executive Order 12866	1/11/96

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II-A-23		Final Report of the Federal Trade Commission, Midwest Gasoline Price Investigation	3/29/01
II-A-24		Draft - "Why Don't We Know More About Housing Supply?", Denise DePasquale, University of Chicago	12/97
II-A-25		"Inventories and Market Power in the World Crude Oil Mkrket" by Timothy J. Considine, Pennsylvania State University, Dept. of Energy, Environmental and Mineral Economics, 2217 Earth-Engineering Sciences Building, University Park, PA	1/22/02 (revised)
II-A-26		Final Report: "Nonroad Emissions Study of Catalyzed Particulate Filter Equipped Small Diesel Engines: by Michael E. Starr, Work Assignment No. 2-17, EPA Contract No. 68-C-98-169	9/20/01
II-A-27		Letter to Manufacture from Gregory A. Green, Certification and Compliance Division, Office of Transportation and Air Quality and Bruce C. Buckheit, Air enforcement Division, Office of Regulatory Enforcement Re: Advisory Circular 24-3 with Enclosure "Advisory Circular Number 24-3: Implementation of Requirements Prohibiting Defeat Devices for On-Highway Heavy-Duty Engines	1/19/01
II-A-28		Letter to Manufacturer from Jane Armstrong, Vehicle Programs and Compliance Division, Office of Mobile Sources and Bruce C. Buckheit, Air Enforcement Division, Office of Regulatory Enforcement with Enclosure: "Heavy-duty Diesel Engines Controlled by Onboard Computers: Guidance on Reporting and Evaluating Auxiliary Emission Control Devices and the Defeat Device Prohibition of the Clean Air Act"	10/15/98
II-A-29		Report: Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression-Ignition, EPA420-P-02-016, NR-009B	11/2002
II-A-30		Report: Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling, EPA420-p-02-014, NR-005b	12/2002
II-A-31		Report: Nonroad Engine Population Estimates, EPA420-P-02-004, NR-006b	12/2002
II-A-32		Report: Nonroad Engine Growth Estimates, EPA420-P-02-018, NR-008b	5/2002
II-A-33		Report: Calculation of Age Distributions in the Nonroad Model: Growth and Scrapage, EPA420-P-02-017, NR-007a	6/2002
II-A-34		Report: Conversion Factors for hydrocarbon Emission Components, EPA420-P-97-009, NR-002	11/97

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II-A-35		Report: Size Specific Total Particulate Emission Factors for Mobile Sources, EPA 460/3-85-005	8/85
II-A-36		SAE Paper: Comparison of EPA and Other Estimates of Mobile Source Rule Costs to Actual Price Changes by John F. Anderson and Todd Sherwood, Office of Transportation and Air Quality, US Environmental Protection Agency, SAE 2002-01-1980	5/14/02
II-A-37		Memo to Todd Sherwood, ASD, OTAQ, OAR, EPA from Mike Gallaher re Clarifications on Several Modeling Issues	3/24/2003
II-A-38		Draft Final Report "Nonroad Duty Cycle Testing for Toxic Emissions" by Michael Starr, Southwest Research Institute, prepared for EPA, OTAQ	9/2002
II-A-39		ICF, Inc., "Diesel PM Model-To-Measurement Comparison," EPA420-D-02-004	10/2002
II-A-40		Selective Catalytic Reduction Urea Infrastructure Study	7/2002
II-A-41		Retrofit Technologies from Johnson Matthey Corp	4/10/03
II-A-42		Green Diesel Technology Vehicles - EPA Recognizes Green Diesel Technology Vehicles at Washington Ceremony	7/27/01
II-A-43		Renault Introduces Particulate Filters on Diesel Cars	3/7/03
II-A-44		Current Production European Direct Injection Gasoline Vehicles	5/11/02
II-A-45		French perspective on diesel engines & emissions	2002
II-A-46		NOx Adsorber Aging on a Heavy-Duty On-Highway Diesel Engine - Part one	2003
II-A-47		U.S. EPA, Nonroad Diesel Emissions Standards - Staff Technical Paper	10/01
II-A-48		Test of the Toyota Avensis DPNR at US EPA-NVFEL	10/21/02
II-A-49		Demonstration of Advanced Emission Control Technologies Enabling Diesel-Powered heavy-Duty Engines to Achieve Low Emission Levels - Final Report	6/1999
II-A-50		SAE Paper - Demonstration of Tier 2 Emission Levels for Heavy Light-Duty Trucks	6/19/00
II-A-51		High-Efficiency NOx and PM Exhaust Emission Control for Heavy-Duty On-Highway Diesel Engines	2001

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II-A-52		“Highway Diesel Progress Review” ASD, OTAQ, OAR, US EPA, EPA420-R-02-016	6/2002
II-A-53		“2007 Diesel Emission Test Program Initial Test Report”, EPA NVFEL Diesel Test Team	12/11/00
II-A-54		“Application of Diesel Particulate Filters to Three Nonroad Engines”, Interim Final Report by Michael E. Starr for California Air Resources Board, Mobile Source Control Division, El Monte, California, SwRI 08.04863	2/2003
II-A-55		“Diesel Emission Control - Sulfur Effects (DECSE) Program”, Phase I Interim Data Report No. 4: Diesel Particulate Filters - Final Report, sponsored by: The US Dept. of Energy, Engine Manufacturers Association, Manufacturers of Emission Controls Association	1/2000
II-A-56		“RuBarme fette Verbrennung mit Niedertemperatur-Oxydation in Diesel Motoren”, Smoke-less Rich Combustion by Low Temperature Oxidation in Diesel Engines, Dr. S. Sasaki, T. Ito, S. Iguchi, Toyota Motor Corp., Toyota	2000
II-A-57		“Assessing New Diesel Technologies”, MIT Light Duty Diesel Workshop, Charles L. Gray, Jr., US EPA	11/20/02
II-A-58		“Diesel Emission Control - Sulfur Effects (DECSE) Program”, Phase I Interim Data, Report No. 1, sponsored by The US Dept. of Energy, Engine Manufacturers Association, Manufacturers of Emission Control Association	8/1999
II-A-59		“Diesel Emission Control - Sulfur Effects (DECSE) Program”, Phase I Interim Data Report No. 2: NOx Adsorber Catalysts, sponsored by: The US Dept. of Energy, Engine Manufacturers Association, Manufacturers of Emission Controls Association	10/1999
II-A-60		“Diesel Emission Control - Sulfur Effects (DECSE) Program”, Phase I Interim Data Report No. 3: Diesel Fuel Sulfur Effects on Particulate Matter Emissions, sponsored by The US Dept. of Energy, Engine Manufacturers Association, Manufacturers of Emission Controls Association	11/1999
II-A-61		“Diesel Emission Control - Sulfur Effects (DECSE) Program” Phase II Summary Report: NOx Adsorber Catalysts, sponsored by US Dept. of Energy, Engine Manufacturers Association, Manufacturers of Emission Controls Association	10/2000
II-A-62		SAE Paper: “High-Efficiency NOx and PM Exhaust Emission Control for Heavy-Duty On-Highway Diesel Engines - Part Two”, Charles Schenk, Joseph McDonald, Chris Laroo, SAE 2001-01-3619	2001

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Document Number	Date Recd. In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-A-63		DaimlerChrysler Powersystems, "NOx Adsorbers for Heavy Duty Truck Engines - Testing and Simulation", N. Hakim	10/9-10/02
II-A-64		Energy Information Administration Form EIA-28, Financial Reporting System	6/27/02 (updated)
II-A-65		"Potential Impacts of Environmental Regulations on Diesel Fuel Prices", Evaluation of An Assessment of the Potential Impacts of Proposed Environmental Regulations on US Refinery Supply of Diesel Fuel, prepared for American Petroleum Institute, National Economic Research Associates	8/2000
II-A-66		"Prospect for Adequate Supply of Ultra Low Sulfur Diesel Fuel in the Transition Period (2006-2007)", An Analysis of Technical and Economic Driving Forces for Investment in ULSD Capacity in the US Refining Sector, prepared for The Alliance of Automobile Manufacturers and The Engine Manufacturers Association	12/7/01
II-A-67		"The Impact of Sulfur in Diesel Fuel on Catalyst Emission Control Technology", Manufacturers of Emission Controls Association	3/15/99
II-A-68		Final Report - "Meeting Technology Challenges for the 2007 Heavy-Duty Highway Diesel Rule", Report of the Clean Diesel Independent Review Subcommittee, Clean Air Act Advisory Committee 10/30/02	10/30/02
II-A-69		Rao, V. and Frank, N. "Chemical Speciation of PM2.5 in Urban and Rural Areas"	Nov. 13-15, 2002
II-A-70		Memorandum from Jean Marie Revelt, ASD, EPA to Docket A-2001-28 with attachment: data from National Bureau of Economic Research used to estimate supply elasticities for the Nonroad Diesel Economic Impact Model (NDEM)	3/28/03
II-A-71		U.S. EPA, "Third External Review Draft of Air Quality Criteria for Particulate Matter" (April, 2002), Volume II	4/2002
II-A-72		Final Report on NRTC Test Procedure	9/13/02
II-A-73		Treating Progress Functions as a Managerial Opportunity	1984
II-A-74		Update of EPA's Motor Vehicle Emission Control Equipment Retail Price Equivalent (RPE) Calculation Formula - Final Report, Work Assignment 3, Contract No. 68-03-3244 by Jack Faucett Associates	9/4/85

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II-A-75		“Economic Analysis of Vehicle and Engine Changes Made Possible by the Reduction of Diesel Fuel Sulfur Content” - Task 2 Final Report: Benefits for Durability and Reduced Maintenance by ICF Consulting	12/9/99
II-A-76		“Economic Analy6sis of Diesel Aftertreatment System Changes Made Possible by Reduction of Diesel Fuel Sulfur Content” - Revised Final Report	12/15/99
II-A-77		“Cost Estimates for Heavy-Duty Gasoline Vehicles” - Final Report	9/30/98
II-A-78		“Study of the Effects of Reduced Diesel Fuel Sulfur Content on Engine Wear” by Edwin A. Frame, Ruben A. Alvarez, Norman R. Sefer of Southwest Research Institute, Contract No. 68-03-3353, Work Assignment B-1	6/1987
II-A-79		“New Ozone Health and Environmental Effects References, Published Since Completion of the Previous O ₃ AQCD,” National Center for Environmental Assessment, Office of Research and Development, US EPA	7/2002
II-A-80		Burnett, et al, “Association between Ozone and Hospitalization for Acute Respiratory Diseases in Children Less than 2 Years of Age”, American Journal of Epidemiology, Vol. 153, No. 5	2001 (Copyright)
II-A-81		Chen, et al, “Elementary School Absenteeism and Air Pollution”, Inhalation Toxicology, 12:997-1016, 2000	2002
II-A-82		Samet, et al, The New England Journal of Medicine - “Fine Particulate Air Pollution and Mortality in 20 US Cities,” 1987-1994, Volume 343, Number 24	12/14/00
II-A-83		“Epidemiological Studies of Ozone Exposure Effects”, George D. Thurston and Kazuhiko Ito, Dept. of Environmental Medicine, NY University School of Medicine, Nelson Institute of Environmental Medicine, Tuxedo, NY, USA	1999 (copyright)
II-A-84		Touloumi, et al, “Short-term Effects of Ambient Oxidant Exposure on Mortality: A Combined Analysis within the APHEA Project”, American Journal of Epidemiology, Volume 146, No. 2	1997 (copyright)
II-A-85		Gilliland, et al, “The Effects of Ambient Air Pollution on School Absenteeism Due to Respiratory Illnesses,” Epidemiology 12:43-54	3/21/00 (submitted) 8/1/00 (accepted)
II-A-86		McConnell, et al, “Asthma in exercising children exposed to ozone: a cohort study”, The Lancet, Vol. 359	2/2/02

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II-A-87		McDonnell, et al, "Ozone-induced respiratory symptoms: exposure-response models and association with lung function", European Respiratory Journal, ISSN 0903-1936	1999
II-A-88		Ostro, et al, "Air Pollution and Exacerbation of Asthma in African-American Children in Los Angeles"	4/3/00 (submitted) 2001 (copyright)
II-A-89		"The Ozone Weekend Effect in California", draft Technical Support Document, California Air Resources Board	8/2001
II-A-90		US EPA (2002). National-Scale Air Toxics Assessment. This material is available electronically at http://www.epa.gov/ttn/atw/nata/ (disk)	2002
II-A-91		Larsen, L.C. (2003). The Ozone Weekend Effect in California: Evidence Supporting NOx Emissions Reductions, Submitted to the J. Air & Waste Manage. Assoc	2003
II-A-92		Marr, L.C. and R.A. Harley (2002). Modeling the Effect of Weekday-Weekend Differences in Motor Vehicle Emissions on Photochemical Air Pollution in Central California, Environ. Sci. Technol., 36, 4009-4106	2002
II-A-93		U.S. EPA (1987). Assessment of Health Risks to Garment Workers and Certain Home Residents from Exposure to Formaldehyde, Office of Pesticides and Toxic Substances, April 1987	4/1987
II-A-94		"Procedures for Developing Base Year and Future Year Mass Emission Inventories for the Nonroad Diesel engine Rulemaking", Office of Air Quality Planning and Standards, US EPA, RTP, NC 27711, prepared by Alpine Geophysics, LLC, Burnsville, NC and E.H. Pechan & Associates, Inc., Durham, NC	4/2003
II-A-95		Yifang Zhu, William C. Hinds, Seongheon Kim, Si Shen and Constantinos Sioutas Zhu Y; Hinds WC; Kim S; et al. (2002) Study of ultrafine particles near a major highway with heavy-duty diesel traffic. Atmos Environ 36(27): 4323-4335	2002
II-A-96		US EPA (1985). Size specific total particulate emission factor for mobile sources. EPA 460/3-85-005. Office of Mobile Sources, Ann Arbor, MI	8/1985
II-A-97		Pope CA III, Verrier RL, Lovett EG; et al. (1999) Heart rate variability associated with particulate air pollution. Am Heart J 138(5Pt 1):890-899	1991

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II-A-98		US EPA (2002). Air Quality Criteria for Particulate Matter - Volume I (Third External Review Draft) This material is available electronically at http://cfpub.epa.gov/ncea/cfm/partmatt.cfm	2002
II-A-99		IAIS Emission Inventory (disk)	4/15/03
II-A-100		Goldstein, B.D. (1988) Benzene toxicity. Occupational medicine. State of the Art Reviews. 3:541-554	1988
II-A-101		Betty K. Pun, Christian Seigneur, and Warren White, June 2001, Data Analysis for a Better Understanding of the Weekday/Weekend Ozone and PM Differences, Atmospheric and Environmental Research, Coordinating Research Council Report	6/2001
II-A-102		Eric Fujita, David Campbell, William Stockwell, Robeft Keisler, Barbara Zielinska, John Sagebiel, Wendy Goliff, Michael Keith, and John Bowen, April 2002, Weekend/Weekday Ozone Observations in the South Coast Air Basin: Volume II - Analysis of Air Quality Data, Desert Research Institute, Coordinating Research Council/National Renewable Energy Laboratory Report	4/2002
II-A-103		Lyle R. Chinkin, Hilary H. Main, Paul T. Roberts, April 2002, Weekday/Weekend Ozone Observations in the South Coast Air Basin Volume III: Analysis of Summer 2000 Field Measurements and Supporting Data, Sonoma Technology Inc., National Renewable Energy Laboratory Report	4/2002
II-A-104		US EPA (June 2000) Exposure and Human Health Reassessment of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds, External Review Draft, EPA/600/P-00/001Ag. This material is available electronically at http://www.epa.gov/ncea/dioxin.htm	6/2000
II-A-105		Brunekreef, B; Janssen NA; de Hartog, J; et al. (1997) Air pollution from traffic and lung function in children living near motor ways. Epidemiology (8): 298-303	1997
II-A-106		US EPA (June 2000) Exposure and Human Health Reassessment of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds, External Review Draft, EPA/600/P-00/001Ag. This material is available electronically at http://www.epa.gov/ncea/dioxin.htm	6/2000
II-A-107		US EPA (2001). Control of Emissions of Hazardous Air Pollutants from Mobile Sources; Final Rule. 66 FR at 17230-17273	3/29/01

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II-A-108		US EPA (2002). Diesel PM model-to-measurement comparison. Prepared by ICF Consulting for EPA, Office of Transportation and Air Quality. Report No. EPA420-D-02-004	2002
II-A-109		Magari SR, Hauser R, Schwartz J; et al. (2001) Association of heart rate variability with occupational and environmental exposure to particulate air pollution. <i>Circulation</i> 104(9):986-991	2001
II-A-110		Dockery, DW; Pope, CA III; Xu, S; et al (1993) An association between air pollution and mortality in six US cities, <i>N Engl J Med</i> 329:1753-1759	1993
II-A-111		US EPA (1988) Integrated Risk Information System File of Acetaldehyde. This material is available electronically at http://www.epa.gov/iris/subst/0290.htm	1988
II-A-112		Aksoy, M. (1989) Hematotoxicity and carcinogenicity of benzene. <i>Environ. Health Perspect.</i> 82: 193-197	1989
II-A-113		US EPA (1998) Carcinogenic Effects of Benzene: An Update, National Center for Environmental Assessment, Washington, DC 1998	1998
II-A-114		US EPA (2000) Integrated Risk Information System File for Benzene. This material is available electronically at http://www.epa.gov/iris/subst/0276.htm	2000
II-A-115		RTI (2003) "Economic Impact Analysis for Nonroad Diesel Tier 4 Rule", Draft Final Report, prepared for Todd Sherwood, US EPA, prepared by Michael Gallaher, Andrea Thomas, Brooks Depro, Health, Social and Economics Research, RTP, EPA Contract #68-D-99-024, RTI Project #07647.004.400	4/2003
II-A-116		US EPA (2002) Health Assessment of 1,3-Butadiene. Office of Research and Development, National Center for Environmental Assessment, Washington Office, Washington, DC. Report No. EPA/600/P-98/001F	2002
II-A-117		Evolution of the Magnitude and Spatial Extent of the Weekend Ozone Effect in California's South Coast air Basin from 1981 to 2000, Eric M. Fujita, et. al	12/23/02 (submitted)
II-A-118		Diurnal and Weekday Variations in the Source Contributions of Ozone Precursors in California's South Coast Air Basin, Eric M. Fujita, et. al.	2/12/03 (submitted)

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II-A-119		Weekday Versus Weekend Activity Patterns for Ozone Precursor Emission in California's South Coast Air Basin, Lyle R. Chinkin, et. al. —submitted to <i>The Journal of the Air and Waste Management Association</i> , 2003	none
II-A-120		Differences between Weekday and Weekend Air Pollutant Levels in Southern California, Charles L. Blanchard, et. al —submitted to <i>The Journal of the Air and Waste Management Association</i> , 2003	none
II-A-121		Day-Of-The-Week Behavior of Atmospheric Ozone in Three United States Cities, Betty K. Pun, Warren White —submitted to the Journal of <i>The Air and Waste Management Association</i> , 2003	none
II-A-122		Modeling Weekday/Weekend Ozone Differences in the Los Angeles Region for 1997, Greg Yarwood, et. al. —submitted to <i>The Journal of the Air and Waste Management Association</i> , 2003	none
II-A-123		Final Report - "1996 American Petroleum Institute/National Petroleum Refiners Association Survey of Refining Operations	7/1997
II-A-124		American Automobile Manufacturers Association International Fuel Survey	Summer/1997
II-A-125		Memorandum from Glenn Keller, EMA to Engine Manufacturers Association to Paul Machiele, ASD, US EPA Re Transmittal of Final Report on Costs to Distribute a 3 rd Diesel Fuel	8/31/99
II-A-126		Predict Process Dynamics - Special Section - Part 1 "Advanced Controls Improve Reformulated Fuel Yield and Quality"	July/August 1993
II-A-127		Petroleum Refining, Technology and Economics, Third Edition, James H. Gary from Colorado School of Mines and Glenn E. Handwerk from Petroleum Refining and Gas Processing, Marcel Dekker, Inc	1994
II-A-128		Plant Design and Economics for Chemical Engineers, Third Edition, Max S. Peters and Klaus D. Timmerhaus, University of Colorado	
II-A-129		US Petroleum Refining, Meeting Requirements for Cleaner Fuels and Refineries, Volume V-Refining Capability Appendix, National Petroleum Council	8/1993
II-A-130		Chemical Engineers' Handbook, Fifth Edition, Robert H. Perry, Cecil H. Chilton	

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II-A-131		Take the PC-Based Approach to Process Control, Small Refineries Can Cost-Effectively Resolve Unique Control Requirements by Rapley Engineering Services, Salt Lake City, Utah	none
II-A-132		Integrated management systems improve plant reliability, Using new guidelines, managers can cost-effectively combine preventive maintenance and process safety management programs, I. S. Sutton	1/1995
II-A-133		Assessing your competitors' application of CIM/CIP, M. J. King, H. N. Evans	7/1993
II-A-134		Gravity, sulfur content of US crude slate holding steady, Oil and Gas Journal, Edward J. Swain	none
II-A-135		Standard Specification for Diesel Fuel Oils, Designation: D 975-93	10/25/03
II-A-136		Estimated Economic Impact of New Emission Standards for Heavy-Duty On-Highway Engines, ASD, OTAQ, EPA prepared by Acurex Environmental Corporation, EPA Contract No. 68-C5-0010, Acurex Environmental Final Report FR-97-103, EPA420-R-97-009	3/1997
II-A-137		How Pipelines Make the Oil Market Work - Their Networks, Operation and Regulation, A Memorandum Prepared for the Association of Oil Pipe Lines and the American Petroleum Institute's Pipeline Committee (with disk), Cheryl J. Trench	12/2001
II-A-138 - II-A-152 not used			
II-A-153		Confidential Information Submission from Diesel	8/1999
II-A-154		UOP Information submission to the National Petroleum Council	8/1999
II-A-155		The Lower it Goes, The Tougher it Gets, National Petrochemical & Refiners Association, Bradford L. Bjorklund, et. al., National Petroleum Council, Lee R. Raymond	3/2000
II-A-156		U.S. Petroleum Refining Draft Report	2/2003
II-A-157		Chemical Engineering Plant Cost Index	2/2003
II-A-158		An Assessment of the Potential Impacts of Proposed Environmental Regulations of U.S. Refinery Supply of Diesel Fuel, T. Ian Moncrieff, et. al.	8/2000

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Category II-A: EPA Studies or Contractor Reports

Document Number	Date Recd. In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-A-159		S Zorb Diesel, Process Overview & Operations & Economics	3/2001
II-A-160		Phillips Szorb Diesel Sulfur Removal Technology, Dr. Peter Slater, et. al	3/2002
II-A-161		Presentation to the clean Diesel Ind. Review Panel, Process Dynamics and Linde Process Plants	3/2002
II-A-162		Worldwide Refining/Worldwide Production, Oil and Gas Journal, Thi Chang, et. al.	12/2000
II-A-163		Review of DOE/Ensys Reformulated Diesel Study-Draft for Discussion, PricewaterhouseCoopers LLP	10/2000
II-A-164		Hydrogen and Utility Supply Optimization, NPRA	3/1998
II-A-165		"Petroleum Supply Annual 2001", Volume 1, Energy Information Administration, Office of Oil and Gas, US Dept. of Energy, Washington, DC, DOE/EIA-0340(01)/1	6/2002
II-A-166		Memorandum from Cleophas Jackson, ASD, EPA to EPA Air Docket A-2001-28 re Nonroad Transient Duty Cycle Generation with 7 attachments	4/24/03
II-A-167		Memorandum from Kent Helmer, ASD, US EPA to EPA Air Docket #A-2001-28 re: ISO #8178-9 and Measurement of Exhaust Gas Smoke Emissions from Compression-Ignition Engines Operating under Transient Conditions with attachment	4/10/03
II-A-168		Memorandum from Kent Helmer, ASD, US EPA to EPA Air Docket #A-2001-28 Re: Cold Start Analysis of PEMS-SPOT Data for Thirteen Nonroad Construction Equipment Units with attachment	4/4/03
II-A-169		Memorandum from Cleophas Jackson, ASD, US EPA to EPA Air Docket A-2001-28 Re: Transient Duty Cycle Performance Statistics with attachment	4/24/03
II-A-170		Memorandum from Cleophas Jackson, ASD, US EPA to EPA Air Docket A-2001-28 Re: JRC/EPA Report on the Nonroad Transient Cycle Harmonization with attachment	4/24/03
II-A-171		Draft/GDS, Informal Document No., (45 th GRPE), "Proposal for a Charter for the Working Group on a New Test Protocol for Exhaust Emissions from Non-Road Mobile Machinery"	1/16-17/03

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Document Number	Date Recd. In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-A-172		Memorandum from Alexander Cristofaro, John D. Graham, Thomas M. Sullivan, Christopher Gunder to Christine Todd Whitman Re: SBREFA Final Panel Report” with attachment entitled “Final Report of the Small Business Advocacy Review Panel on EPA’s Planned Proposed Rule, Control of Emission of Air Pollution From Land-Based Nonroad Compression Ignition Engines”	12/23/02
II-A-173		“Diesel Fuel Oils, 1996” by Cheryl L. Dickson and Gene P. Sturm, Jr., National Institute for Petroleum and Energy Research, Bartlesville, Oklahoma	10/1996
II-A-174		US Dept. of Agriculture, National Agricultural Statistics Service, Agricultural Statistics 2002	2002
II-A-175		“Annual Energy Review”, Energy Information Administration	2000
II-A-176		“Fuel Oil and Kerosene Sales 2000”, Energy Information Administration	9/2001
II-A-177		“Petroleum Supply Annual 2001”	6/2002
II-A-178		Refinery Capacity Data, US Dept. of Energy, Energy Information Administration	1/1/02 (as of)
II-A-179		1992 Census of Manufacturers, Industry Series, Petroleum and Coal Products, US Dept. of Commerce	
II-A-180		Petroleum Refineries, US Census Bureau, US Dept. of Commerce	1997
II-A-181		Statistics for Industry Groups and Industries: 2000, US Census Bureau	2/2002 (issued)
II-A-182		Industry Profile for Nonroad Diesel Tier 4 Rule - Final Report, Todd Sherwood, et. al.	4/2003
II-A-183		US EPA (2003) Technical Support Document for the Nonroad Land-based Diesel Engines Standards Air Quality Modeling Analyses, US EPA, OAQPS, Emissions Analysis and Monitoring Division, RTP. This document has been archived on the CD located in the place for Document III-A-01. The filename for this document on the CD includes its Document Number. It is also available on EPA’s web-based electronic docket as OAR-2003-0012-0020.	4/2003

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Category II-A: EPA Studies or Contractor Reports

Document Number	Date Recd. In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-A-184		Abt Associates (2003) Preliminary Nonroad Landbased Diesel Engine Rule: Air Quality Estimation, Selected Health and Welfare Benefits Methods, and Benefit Analysis Results. This document has been archived on the CD located in the place for Document III-A-01. The filename for this document on the CD includes its Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0022.	4/2003
II-A-185		CD-R 80 min/700 mb, "Draft NONROAD2002b" emission inventory model and technical documentation, US EPA, OTAQ.	5/2003
II-A-186		Basic Concepts - Heart rate variability associated with particulate air pollution, C. Arden PopeIII, Phd, et. al.	9/9/1998 (submitted) 12/17/98 (accepted)
II-A-187		Air Pollution from Truck Traffic and Lung Function in Children Living near Motorways, Bert Brunekreef, et. al.	
II-A-188		See II-F-65	3/28/03
II-A-189		Refining Economics of Diesel Fuel Sulfur Standards, by EMA, MathPro Inc.	10/5/00
II-A-190		Control of Emissions of Air Pollution from 2004 and Later Model Year Heavy-Duty Highway Engines and Vehicles: Response to Comments	7/2000
II-A-191		Economic Analysis of Diesel Aftertreatment System Changes Made Possible by Reduction of Diesel Fuel Sulfur Content, Revised Final Report	12/3/99
II-A-192		Memorandum from Chris Lieske, Joseph McDonald to Docket A-2001-28 Re: Additional Information on Nonroad Retrofit Engine ABT Credit Concepts with attachment	4/14/03
II-A-193		See II-D-51	4/29/00
II-A-194		Memorandum from William Charmley to EPA Air Docket A-2001-28 Re: Estimate of the Impact of Low Sulfur Fuel on Oil Change Intervals for Nonroad Diesel Equipment (attachment)	3/23/03
II-A-195		Memo from William Charmley, ASD, EPA to EPA Docket A-2001-28 Re: Information Regarding Mine Locations in the United States	4/10/03
II-A-196		US EPA (2003) Air Quality Data Analysis 1999-2001, Technical Support Document for Regulatory Actions	3/2003

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Document Number	Date Recd. In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-A-197		Fuel Oil and Kerosene Sales 2000, Energy Information Administration	9/2001
II-A-198		Highway Statistics 2000, Office of Policy, Office of Highway Policy Information, Federal Highway Administration	2000
II-A-199		US Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 2000 Annual Report	12/2001
II-A-200		Annual Energy Outlook 2002, With Projections to 2020, DOE/EIA-0383 (2002)	12/2020
II-A-201		US EPA Final Regulatory Impact Analysis: Control of Emissions from Marine Diesel Engines	11/1999
II-A-202		Memo Re; Summary of Current Status of Partial Flow Sampling Systems Based on the United States Workgroup on PFSS Report to the International Standards Organization (ISO) Working Group on ISO DIS 16183 (attachment)	4/24/03
II-A-203		EPA/Dyntel Duty Cycle Analysis Report, EPA Memo from Cleophas Jackson to EPA Air Docket A-2001-28. This document has been archived on the CD located in the place for Document III-A-01. The filename for this document on the CD includes its Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0021.	
II-A-204		United States Department of Agriculture, National Agricultural Statistics Service, "Agricultural Statistics 2002" [Tables 15]	2002
II-A-205		Letter from John A. Knebel, American Mining Congress to EPA Air Docket (LE-131) Re: Emissions of Oxides of Nitrogen and Smoke From New Nonroad Compression-Ignition Engines at or Above 50 Horsepower, Docket A-91-24, Attached: "Comments of the American Mining Congress"	7/27/93
II-A-206		Final Report - "Nonroad Test Cycle Development", by Michael Starr Southwest Research Institute, EPA Work Assignment 2-9, EPA Contract 68-C5-0076	9/1998
II-A-207		Nonroad Diesel Engine and Equipment Manufacturer Industry Characterization, Continuation, prepared by Cleophas Jackson	2/2003
II-A-208		Section A - Information Previously Sent to Potential SERs	8/30/02
II-A-209		American Petroleum Institute "All About Petroleum".	

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Document Number	Date Recd. In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-A-210		API - "Pipelines Need Operational Flexibility to Meet America's Energy Needs", Maintaining Flexibility in Refined Products Pipelines"	4/24/03

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Category II-B: EPA Factual Memos

Document Number	Date Recd. In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-B-01	11-20-01	“Internal Combustion Engine Fundamentals” John B Heywood [article from- Pollutant Formation and Control], pp. 572-578	1988
II-B-02	11-20-01	“Internal Combustion Engine Fundamentals” John B. Heywood [article from -Pollutant Formation and Control], pp. 572-573	1988
II-B-03	11-20-01	Internal Combustion Engine Fundamentals” John T. Heywood [article from Pollutant Formation and Control] pp. 866-869	1988
II-B-04	11-20-01	“Inlet and Exhaust Systems” [article 4-stroke/2-stroke, Turbocharging]	Undated
II-B-05	12-04-01	E.O. Ginsburg, Senior Program Advisor, Emissions Monitoring and Analysis Division , OAQPS, EPA “Summary of 1999 Ambient Concentrations of Fine Particulate Matter” comments to EPA Air Docket	11-15-01
II-B-06	12-04-01	“Summary of EPA nonroad test program at Southwest Research Institute” (SwRi), C. Jackson, OTAQ: memo to Air Docket	11-20-01
II-B-07	12-04-07	W. Charmley, OAR, OTAQ, EPA: to Docket [Air and Radiation] Obtaining Society of Automotive Engineers (SAE) Technical Papers referenced in “Nonroad Diesel Emission Standards - Staff Technical Paper”, W. Charmley, OTAQ: to Docket [Air and Radiation]	11-20-01
II-B-08	12-11-01	W. Charmley, OAR, OTAQ, EPA: to Docket [Air and Radiation] Summary of Model Year 2001 Certification data for Nonroad Tier 1 Compression-ignition Engines with rated power between 0 and 50 horsepower	11-20-01
II-B-09	06-03-02	C. France, Director, Assessment & Standards Division (ASD), Office of Transportation Air Quality (OTAQ), Office of Air & Radiation (OAR), U.S. EPA re: comments on Nonroad Diesel Emission Standards Staff Technical Paper	06-04-02
II-B-10	06-03-02	C.C. Jackson Jr., National Vehicle and Fuel Emissions Laboratory, Office of Transportation Air Quality (OTAQ), Office of Air & Radiation, (OAR), U.S. EPA re: Caterpillar ACERT Engine Testing	05-30-02
II-B-11	10-02-02	Presentation to EPA by Deutz on September 20, 2002	09-20-02
II-B-12	10-02-02	Report by the European Association of Internal Combustion Engine Manufacturers (Euromot) and Engine Manufacturers Association (EMA-USA) “Investigation of the Feasibility of PM Filters for NRMM” “Investigation of the feasibility of PM Filters for NRMM “	Rev 07-12-02

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Document Number	Date Recd. In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-B-13		Letter from Bruce C. Buckheit, Director, Air Enforcement Division, Office of Enforcement and Compliance Assurance to Assurance, Revision to Addendum to Mobile Sources Enforcement Memorandum 1A, Subject - Revised Tampering Enforcement Policy for Alternative Fuel Conversions	1/1/98
II-B-14		Memorandum from David J. Korotney, Assessment and Standards Division, Office of Transportation and Air Quality, Office of Air and Radiation, US EPA to EPA Air Docket A-2001-28 Re Calculation of remaining life at time of retrofit for highway and nonroad credit generation.	1/13/03
II-B-15		Memorandum from William Charmley, Assessment and Standards Division, Office of Transportation and Air Quality, Office of Air and Radiation, US EPA to EPA Air Docket A-2001-28 Re Documentation of the Availability of Diesel Oxidation Catalysts on Current Production Nonroad Diesel Equipment	1/29/03
II-B-16		Memorandum from William Charmley, Assessment and Standards Division, Office of Transportation and Air Quality, Office of Air and Radiation, US EPA to EPA Air Docket A-2001-28 Re Model Year 2002 Certification Data for Nonroad Diesel engines	1/21/03
II-B-17		Memorandum from Jean Marie Revelt, Assessment and Standards Division, Office of Transportation and Air Quality, Office of Air and Radiation, US EPA to Docket A-2001-28 Re: Annual Value of Construction Put in Place, C30 Table 101	3/19/03
II-B-18		Memorandum from Jean Marie Revelt, Assessment and Standards Division, Office of Transportation and Air Quality, Office of Air and Radiation, US EPA to Docket A-2001-28 Re: Record of Communications Between Mike Gallaher and Bill Pizer on November 5, 2002 re Productivity Approach	3/19/03
II-B-19		Memorandum from Rich Cook, Assessment and Standards Division, Office of Transportation and Air quality, Office of Air and Radiation, US EPA to Docket A-2001-28 Re:Data and Documentation for Diesel PM Modeling in Houston for 1996, Using ISCST3.	5/28/03
II-B-20		Memorandum from Jeff Herzog, Assessment and Standards Division, Office of Transportation and Air Quality, Office of Air and Radiation, US Environmental Protection Agency to Docket A-2001-28 Re:"Use of a Visible Spectrometer Based Test Method in Detecting the Presence and Determining the Concentration of Solvent Yellow 124 in Diesel Fuel" with attachments	4/24/03

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Document Number	Date Recd. In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-B-21		Memorandum from Jeff Herzog, Assessment and Standards Division, Office of Transportation and Air Quality, Office of Air and Radiation, US Environmental Protection Agency to Docket A-2001-28 Re: "Diesel Products Carried by Bulk Plants Under the Proposed Non-Highway Sulfur Program"	4/18/03
II-B-22		Memorandum from Leslie Kirby Miles, Attorney Advisor, Mobile Source Enforcement Branch, Air Enforcement Division, Office of Enforcement and Compliance Assurance to Docket A-2001-28 Re: "Potential bond Regulations for Foreign Equipment Manufacturers under the Tier 4 Nonroad Diesel Proposal"	4/9/03
II-B-23		Memorandum from Marty Barris to Byron Bunker Re: "Closed Crankcase Presentation"	3/20/00
II-B-24		Memorandum from Phil Carlson, ASD to Docket A-2001-28 Re: "Analysis of Equipment Manufacturer Flexibilities"	4/15/03
II-B-25		"Retrofit Technologies from Engelhard" with letter from Coralie Cooper, Mobile Source Analyst to Kevin Hallstrom, Engelhard Corporation	5/31/01
II-B-26		Letters from companies to Christine Todd Whitman Re: Supporting the EPA's efforts to promulgate regulations that will reduce emissions from non-road equipment and vehicles	12/2002 and early 2003
II-B-27		Memorandum from Byron Bunker, EPA Office of Mobile Sources to Docket #A-99-06 Re: Estimating Fuel Economy Impacts of NOx Adsorber De-Sulfation	5/15/00
II-B-28		Letter from Dr. Barry J. Cooper, Johnson Matthey Catalytic Systems Division to Don Kopinski, EPA, Motor Vehicle Emission Laboratory Re: Reference to request for information relating to the specification of diesel fuel sulfur levels required for advanced after-treatment	3/15/00
II-B-29		Memorandum from Todd Sherwood, ASD, OTAQ to Air Docket A-99-06 Re: Telephone Conversation with Dr. Barry Cooper, Johnson Matthey re: CRT Field Data in Finland	12/11/00
II-B-30		Memorandum from Cheryl Caffrey, ASD to Air Docket A-2001-28 Re: External cooling of aftertreatment system, where applicable	4/9/03
II-B-31		Memorandum from William Charmley, ASD, EPA to EPA Air Docket A-2001-28 Re: Summary of Conference Call between US EPA and Deutz Corporation on September 19, 2002 regarding Deutz Diesel Particulate Filter System	3/28/03

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Document Number	Date Recd. In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-B-32		Memorandum from Kent Helmer, ASD, EPA to EPA Air Docket A-2001-28 Re: National Excavator Fleet Population Estimate	4/10/03
II-B-33		Letter from Jed R. Mandel, Engine Manufacturers Association to Chester France Re: Development of appropriate transient test cycle for variable speed land-based compression ignition non-road engines	5/30/01
II-B-34		Memorandum from Kent Helmer & Alan Stout, ASD, EPA to Air Docket #A-2001-28 Re: Applicability EPA's NRTC cycle to Nonroad Diesel Population	4/10/03
II-B-35		Memorandum from Jean Marie Revelt, ASD, EPA to Docket A-2001-28 Re: E-Mail Communicatin from Mike Gallaher to Todd Sherwood Re: Nonroad Equipment Prices (February 7, 2003) with attachment	2/7/03
II-B-36		Memorandum from Todd Sherwood, ASD, EPA to Air Docket A-2001-28 Re: Email Correspondence with Malcolm McHattie Regarding Future Nonroad Emissions Standards in Canada with attachment	4/12/03
II-B-37		Memorandum from Todd Sherwood, ASD, EPA to Air Docket A-2001-28 Re: Engine Sales used in Proposed nonroad Tier 4 Cost Analysis	4/11/03
II-B-38		Memorandum from Zuimdie Guerra, ASD, EPA to EPA Air Docket A-2001-28 Re: Estimated Price of New Non-Road Example Equipment	4/10/03
II-B-39		Memorandum from Charles Moulis, ASD, EPA to Docket A-2001-28 Re. Changes Make in Nonroad CI Tier 4 Compliance Program	4/22/03
II-B-40		Memorandum from Matthew W. Spears, ASD, EPA to Docket A-2001-28 Re: Changes Considered for Part 1065-Test Procedures and Equipment This document has been archived on the CD located in the place for Document III-A-01. The filename for this document on the CD includes its Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0028.	4/1/03

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Category II-B: EPA Factual Memos

Document Number	Date Recd. In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-B-41		Memorandum from Alan Stout, ASD, EPA to Docket A-2001-28 Re: Full Text of 40 CFR Part 1068 Including Proposed Changes This document has been archived on the CD located in the place for Document III-A-01. The filename for this document on the CD includes its Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0029.	5/7/03
II-B-42		Memorandum from Kent Helmer, ASD to EPA Air Docket A-2001-28 Re: Regression Statistics on Contract Testing of the Arc Welder Cycles on Various Dynamometer-mounted Engines	4/22/03
II-B-43		Memorandum from Kent Helmer, ASD to EPA Air Docket A-2001-28 Re: In-House Testing of Nonroad Transient Arc Welder Cycles on the Cummins ISB 5.9L Diesel Engine, February 7, 2003 (disk attached)	4/24/03
II-B-44		Memorandum from Jean Marie Revelt, ASD to EPA Docket A-2001-28 Re: Draft Regulatory Impact Analysis Control of Emissions from Nonroad Diesel Engines Additional Information Regarding Data Inputs, Chapter 10	
II-B-45		Memorandum from Kent Helmer, ASD to EPA Docket A-2001-28 Re: Application Cycle Transformations with Maximum Test Speed Determination (CD attached)	4/22/03
II-B-46		Memorandum from Jeff Herzog, ASD to EPA Docket A-2001-28 Re: Precision Data for Test Procedures Used in Low-Level Sulfur Determination of Diesel Fuel	5/5/03
II-B-47		Memorandum from Kent Helmer, ASD, to EPA Docket A-2001-28 Re: EMA letter of support for EPA's refinement of its JRC nonroad diesel transient test cycle (with attachment)	4/12/03
II-B-48		Memorandum from Tia Sutton, ASD to EPA Air Docket A-2001-28 Re: Clarification of the Definition of Small-Volume Engine Manufacturer in the Regulations of the Proposed Rulemaking	5/1/03
II-B-49		Memorandum from Mary Manners, ASD to EPA Air Docket A-2001-28 Re: Derivation of the National Average In-use Sulfur Level of Uncontrolled Nonroad, Locomotive, and Marine Diesel Fuel	5/8/03

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Category II-C: EPA Correspondence to Persons Outside the Agency

Document Number	Date Recd. In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-C-01	10-26-01	R. Mann, Case - New Holland, from M. Oge, OTAQ: w/attachment: Technical Questions re: Nonroad Emission Standards	09-12-01
II-C-02	10-26-01	C. Vujovich, Cummins Engine Company, Inc., from M. Oge, OTAQ: w/attachment: Technical questions re: Nonroad Emission Standards	09-12-01
II-C-03	10-26-01	T. Tindall, Detroit Diesel Corp., from M. Oge, OTAQ: w/attachment: Technical Questions re: Nonroad Emission Standards	09-12-01
II-C-04	10-26-01	J. Sauerteig, Deutz Corporation., from M. Oge, OTAQ: w/attachment: Technical Questions re: Nonroad Emission Standards	09-12-01
II-C-05	10-26-01	N. Wier, Yanmar Diesel American Corp., from M. Oge, OTAQ: w/attachment: Technical questions re: Nonroad Emission Standards	09-12-01
II-C-06	10-26-01	C. Larson, Kubota Engine America Corp., from M. Oge, OTAQ: w/attachment	09-12-01
II-C-07	10-26-01	T. Breidenbach, John Deere, from M. Oge, OTAQ: w/attachment: Technical questions re: Nonroad Emission Standards	09-12-01
II-C-08	10-26-01	J. Domike, Wallace, King, Marraro, & Branson, PLLC, [Mack Truck, Volvo Powertrain] from M. Oge, OTAQ: w/attachment: Technical questions regarding Nonroad Emission Standards.	09-12-01
II-C-09	10-26-01	D. Murphy, Caterpillar Inc., from M. Oge, OTAQ; w/attachment: Technical questions re: Tier 3 Nonroad Emissions requirements	09-11-01
II-C-10	11-07-01	J. Armstrong, VPCD, B. Buckheit, AED: Manufacturer letter: "Heavy-duty Diesel engines Controlled by Onboard Computers: guidance on Reporting and Evaluating Auxiliary Emission Control devices and the Defeat Device Prohibition of the Clean Air Act"	10-15-98
II-C-11		Memo to J. Mandel, K. Kokrda, Richard Bishop from William Charmley Re: Staff draft regulatory test for nonroad diesel engines with attachment	3/14/03

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Category II-D: Correspondence Received from Outside Persons

Document Number	Date Recd In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-D-01	10-26-01	J.K. Amdall, Caterpillar, Inc. Peoria, Il. to J. Holmstead & M. Oge, OTAQ, OAR, EPA: RE: September 10, 2001 EPA Request for Information from Caterpillar, Inc. [Overview of Caterpillar Technology Development for Nonroad Tier 3] w/attachments	10-01-01
II-D-02	10-26-01	J. K. Amdall, Caterpillar, Inc. Peoria, Il. to J. Holmstead & M. Oge, OTAQ, OAR, EPA: Re: Additional information on ACERT technology.	10-17-01
II-D-03	10-26-01	R. Mann, CNH, Burr Ridge, IL to C. France, Director, Assessment and Standards Division (ASD), OTAQ, NVFEL, EPA re: "Nonroad Tier 3 Technical Feasibility"	10-19-01
II-D-04	10-26-01	Caterpillar Inc., Peoria, Il. A Newsletter: "Caterpilllar Inc., Ready to meet stringent 2006 Clean Air Standards for non-road vehicles	10-22-10
II-D-05	10-26-01	Diesel Progress North American Edition, M. Osenga, "Common Rail Electronics Headline Deere Tier 2 Diesels"	07-01
II-D-06	11-08-01	T. Tindell, Detroit Diesel, to Chet France, NVFEL, OTAQ, OAR, EPA: comments re: Fuel Sulfur requirements for Tier 2, and views on future nonroad emission regulations.	08-24-01
II-D-07	11-08-01	D. Murphy, Vice President, Caterpillar Inc., Peoria, IL., to J. Holmstead, A/A, OAR, EPA: comments re: Tier 3 emission requirements for engines used in non-road machines in 2006	08-27-01
II-D-08	11-08-01	B. Passie, Mananger, Engine Emissions Standards & Regulations, caterpillar Inc. Peoria, IL to W. Charmley, NVFEL, OTAQ, OAR, EPA: re: updated copy of chart showing caterpillar proposal	08-09-01
II-D-09	11-06-01	W. Charmley, Engineer, OTAQ, EPA re: Documentation of Industry Press Releases Regarding Compliance with Highway H-D- 2004 standards in 2002 [Cummins Inc., Detroit Diesel Corp, Mack Trucks]	10-25-01`
II-D-10	11-06-01	W. Charmley, Engineer, OTAQ, EPA Re: Submission from Cummins Inc., Re: Cooled Exhaust Gas Recirculation technology titled "05 Tier 3 Nonroad Fuel Sulfur Issues"	10-25-01
II-D-11	11-06-01	Detroit Diesel Corporation, "Detroit Diesel Unveils Year 2000 Series 50 Bus & Coach Engine" [website release]	2001
II-D-12	11-06-01	R. Bishop, John Deere Product Engineering Center, to C. France, NVFEL, OTAQ, OAR, EPA: Response from M. Oge letter to T. Breidenback 9/12/01	10-09-01

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Category II-D: Correspondence Received from Outside Persons

Document Number	Date Recd In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-D-13	11-06-01	Diesel Progress article, M. Brezonick "Playing it Cool on Emissions" [Engine technology, Cummins 02 compliance through cooled EGR]	08-01
II-D-14	11-06-01	R. Mann, Manager, Basic Engines, Case-New Holland [CNH] Burr Ridge, IL. to C. Jackson, OTAQ, ASD, EPA: Re: "Nonroad Tier 3 Technical Feasibility" with enclosure of EPA/CNH discussion by Video Conference	10-09-01
II-D-15	01-14-02	B. Dean, Chief Executive Officer, A.J.F. Taylor, Emissions Compliance Manaer, Lister-Petter Limited, Dursley, Gloucestershire, England to J. MacAllister, A/A, OTAQ, OAR, EPA: comments on the EPA Non-Road Diesel Emissions Standards Staff Technical Paper, published- EPA420-R-01-052 10-30-01	12-15-01
II-D-16	01-15-02	D. Drollinger, Vice President, Technical & Safety Programs, Association of equipment Manufacturers (AEM), comments to M. Borushko, OTAQ, OAR, EPA: Nonroad Diesel Emissions Staff Technical Paper	01-04-02
II-D-17	01-15-02	W.C. Passie, Manager, Emissions Standards & Regulations, Caterpillar, Inc., Peoria, IL, comments to M. Borushko, OTAQ, OAR, EPA: Staff Technical Paper	01-4-02
II-D-18	01-15-02	R. L. Mann, Manager, Basic Engines, Engine Strategy Group, CNH Global, N.V., Burr Ridge, Il., comments to M. Borushko, OTAQ, OAR, EPA: Staff Technical Paper	01-4-02
II-D-19	01-15-02	M.S. Brand, Product Environmental Management, Off-highway Applications Director, Cummins Engines, Inc., comments to M. Borushko, OTAQ:, OAR, EPA: Nonroad Tier 3 Staff Technical Paper	01-4-02
II-D-20	01-15-02	R. Bishop, Environmental Compliance, John Deere Power Systems, John Deere & Company, comments to M. Borushko, OTAQ: Staff Technical Paper	01-4-02
II-D-21	01-04-02	J. Mandel, Counsel, Neal, Gerger & Eisenberg, Chicago, Il., on behalf of Engine Manufacturers Associaton (EMA) comments to M. Borushko, OTAQ, OAR, EPA: Staff Technical Paper	01-4-02
II-D-22	01-15-02	A. Kleinbaum, Director of Environment, Safety and Health and Assistant General Counsel, Ingersoll- Rand Company, and W.F. Lane and A. H. McConnell, Kilpatrick Stockton, L.L.P., counsel to Ingersoll-Rand Company: Staff Technical Paper	01-4-02
II-D-23	01-15-02	E.H. Murphy, Downstream General Manager, American Petroleum Institute, (API) comments to M. Borushko, OTAQ, OAR, EPA: : Staff Technical Paper w/ enclosure	01-4-02

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Category II-D: Correspondence Received from Outside Persons

Document Number	Date Recd In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-D-24	01-24-02	J.H. Medley, Fuels Issues Advisor, Exxon Mobil Refinery & Supply Company, Fairfax, VA comments to M. Borushko, OTAQ, OAR, EPA: Staff Technical Paper	01-4-02
II-D-25	01-15-02	National Petrochemical and Refiners Association (NPRA) comments to C. France, NVFEL, OTAQ, OAR, EPA: Staff Technical Paper w/attachment	01-10-01
II-D-26	01-15-02	J. Elston., Chair, Mobile Sources and Fuels Committee, State and territorial Air Pollution Program Administrators (STAPPA) and E. P. Skelton, Association of Local Air Pollution Control Officials (ALAPCO), Washington, DC. comments to J. Holmstead AA, OAR: comments re: Nonroad Diesel Emission Stds. Staff Technical paper w/attachment	01-03-01
II-D-27	01-15-02	R.H. Cross, Chief, Mobile Sources Control Division, California Air Resources Board, (CARB) to C. France, Associate Director, ASD, OTAQ, OAR EPA: Staff Technical Paper [Reference No. Z-02-01]	01-04-02
II-D-28	01-15-02	J. L. Kirkwood, President and Chief Executive Officer, American Lung Assn. (ALA) comments to J. Holmstead, AA OAR, EPA: Staff Technical Paper	01-04-02
II-D-29	01-15-02	D. Marshall, Counsel, Clean Air Task Force, Henniker, NH on behalf of American Lung Association ALA, [Chicago], ALA, [NY], Izaak Walton League of America, Ohio Environmental Council, Southern Alliance for Clean Energy, Southern Environmental Law Center, comments to M. Borushko OTAQ, OAR, EPA: Staff Technical Paper	01-04-02
II-D-30		V. Patton, Sr. Attorney, Environmental Defense, comments to M. Borushko, OTAQ: Staff Technical Paper	01-04-02
II-D-31		R. Valentinetti, Northeast States for Coordinated Air Use Management (Nescaum) comments to M. Borushko, OTAQ: Staff Technical Paper	01-04-01
II-D-32	01-15-02	Ozone Transport Commission (OTC), comments to C. Todd Whitma/ M. Borushko, OTAQ: Staff Technical Paper	1-4-02
II-D-33	01-15-02	A. Pouring, Sonex Research, Inc. general comments on Nonroad Diesel Emissions Standards Staff Technical paper	1-3-02
II-D-34	01-15-02	J. Michael Luzier, National Association of Home Builders (NAHB) comments to M. Borushko, OTAQ: Staff Technical Paper	1-3-02
II-D-35	02-13-02	Leah Wood, The Associated General Contractors Of America, (AGCA) comments to M. Borushko, OTAQ: Nonroad Diesel Emissions Standards Staff Technical Paper	1-14-02

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Document Number	Date Recd In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-D-36	02-13-02	Dr. R. Vogt, Deutz AG, to M. Borushko, OTAQ: comments to Tier 3 White Paper released 11-20-01. w/attachment	1-21-01
II-D-37	02-13-02	Al Jessel, Chevron Products Company, to M. Borushko, OTAQ: comments to EPA's Staff Technical paper, proposing plan to reduce sulfur level of nonroad diesel fuel	12-27-01
II-D-38	02-13-02	H. Yamaguchi, Komatsu Ltd. Tokjo, Japan to M. Borushko, OTAQ: comments on EPA's Staff Technical Report [EPA420-R-01-052] October 2001, prepared by Komatsu Ltd. 12-08-01	12-28-01
II-D-39	02-13-02	D. McLerran, Clean Air Agency, comments to J. Holmstead, A/A, EPA OAR re: "Non-road Diesel Emission Standards Staff Technical Paper"	Undated
II-D-40		Email to Alan Stout, Assessment and Standards Division, Office to Transportation and Air Quality, Office of Air and Radiation, US EPA from Chinadepot@aol.com Re Lack of enforcement, recap of morning conversation	1/24/03
II-D-41		Letter from American Lung Association, State and Territorial Air Pollution Program, Clean Air Trust, Northeast States for Coordinated Air Use Management, Natural Resources Defense Council, Sierra Club, Union of Concerned Scientists to Jeffrey R. Holmstead, Assistant Administrator, US EPA Re: Nonroad Diesel Emissions Proposal	12/17/02
II-D-42		Letter from Michael O. Leavitt, Governor of Utah, WRAP Co-Chair and Fred S. Vallo, Sr., Governor of Pueblo of Acoma, WRAP Co-Chair Re: Encouraging EPA's adoption of new engine and fuel sulfur standard for non-road diesel sources	1/28/03
II-D-43		Letter from Kevin Kokrda, Engine Manufacturers Association to Cleophas Jackson, EPA Re: Constant-speed Transient Test Consideration for Nonroad Tier 4	3/28/03
II-D-44		Email from Cleophas Jackson, ASD, EPA to Kent Helmer, ASD, EPA & Alan Stout, ASD, EPA Re: EMA letter	3/30/03
II-D-45		Letter from Michael O. Leavitt, WRPA Co-Chair, Fred S. Vallo, WRAP Co-Chair to Christine Todd Whitman, EPA, Washington, DC encouraging EPA's adoption of rigorous new engine and fuel sulfur standards for non-road diesel sources	1/28/03
II-D-46		Letter from American Lung Association, Natural Resources Defense Council, Pollution Control Officials, Clean Air Truck northeast State for Coordinated Air Use, Natural Resources Defense Council, Sierra Club, Union of Concerned Scientists to Jeffrey R. Holmstead, EPA, Washington, DC Re: Nonroad	12/17/02

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Document Number	Date Recd In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
II-D-47		Letter from Winston H. Hickox, California EPA, Erin M.Crotty, NY State Dept of Environmental Conservation, Ralph Marquez, Texas Natural Resource Conservation Commission	4/09/02
II-D-48		Letter from Gary L. Hamilton, Petroleum Refining to Lester Wyborny, ASD, EPA Re: Syn Technology for the Production of Low Sulfur Diesel Fuel with attachment	8/2/99
II-D-49		Letter from Carl Edlund, Director, Multimedia Planning and Permitting Division, U.S. Environmental Protection Agency, Region VI, to Jeffrey Saitas, Executive Director, Texas Natural Resources Conservation Commission, providing comments on proposed revisions to the Texas State Implementation Plan for the control of ozone.	9/25/00
II-D-50		Letter and attached document to Jeffrey Holmstead of EPA from Michele Brown of the Alaska Department of Environmental Conservation.	
II-D-51		Letter from Jed Mandel, Neal, Gerber & Eisenberg to Chester J. France Re: copy of MathPro analysis of the costs associated with the desulfurization of diesel fuel.	8/29/02
II-D-52	01-14-02	B. Slaughter, National Petrochemical & Refiners Association (NPRA), Washington, DC	01-10-02
II-D-53	03-15-02	R. Cross, Air Resources Board, to P. Machiele, OAR, OTAQ, EPA: Clarification of comments regarding the introduction of 15 ppm low-sulfur diesel fuel in the nonroad sector”	03-15-02
II-D-54	03-20-02	Maureen Horowitz, Private citizen comment to Christine Todd Whitman, Administrator, EPA: comment re: EPA Action to control Hazardous Air Pollutants	03-20-02
II-D-55	04-19-02	R.A. Bishop, Environmental Compliance, John Deere Power Systems, John Deere Product engineering Center, Waterloo, IA	01-23-02
II-D-56	04-12-02	W.H. Hickox, Agency Secretary, California Environmental Protection Agency; E.M. Crotty, Commissioner, New York State Conservation; and R. Marquez, Commissioner, Texas Natural resource Conservation Commission (TNRCC)	04-09-02
II-D-57		Letter from John Rubino III to Donald Kopinski, ASD, EPA Re: Cummins Non-road Tier 3 Technical Data	5/30/02

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Category II-E: Memorandum of Meetings/Telephone Conversations with Outside Groups

Document Number	Date Recd. In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-E-01		Memorandum from Cleophas Jackson, ASD, EPA to EPA Docket A-2001-28 Re: EPA Staff meeting with Charles Machine Works	11/7/01

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Category II-F: Interagency Review Materials

Document Number	Date Rcvd in Docket	Commenter, Addresses, Titles or Description, Etc.	Date of Document
II-F-01		Fax from Trish Koman, ASD, EPA to Amanda Lee, OMB Re: Office of Federal Register cleared notices extending PM10 attainment deadlines and will be published on 4/15, attached edits to be made	4/16/03-?
II-F-02		Email from Karl Simon, DC, EPA to A. Frass, A. Lee, Richard Theroux Re: Comments on your comments on fuel "designate and track" write-up with attachment	4/10/03
II-F-03		Email from John d Bachmann to Alan Stout, EPA Re: A late hit from OMB on benefits with attachment	4/11/03
II-F-04		Email from Karl Simon, DC, EPA to Alan Stout, EPA Re: Spillover question	4/11/03
II-F-05		Email from Karl Simon, DC, EPA to Richard P. Theroux, A. Lee, A. Farrell at OMB Re: Response to RIA Chapter 10 OMB comments with attachment	4/6/03
II-F-06		Email from Trish Koman, ASD, EPA to Alan Stout, ASD, EPA Re OMB comments on Chapter 9	4/4/03
II-F-07		Email from Karl Simon, DC, EPA to A. Farrell, OMB Re: NR - References Requested - April 1, 2003 - SBA	4/2/03
II-F-08		Fax from Amy Farrell, Office of Information and Regulatory Affairs, Office of Management and Budget, Natural Resources, Energy and Agriculture Branch to Karl Simon, DC, EPA Re: Yesterday's call with attachment (Chapter 2: Air Quality, Health, and Welfare Effects)	3/27/03
II-F-09		Email from Trish Koman, ASD, EPA to Alan Stout, ASD, EPA Re: Dioxin statement	3/28/03
II-F-10		Email from Karl Simon, DC, EPA to A. Farrell, OMB Re: Responses to nonroad cost questions from OMB and SBA with attachment	3/27/03
II-F-11		Fax from Trish Koman, ASD, EPA to Art Frass, OMB Re: Attached pages from the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control (Dec. 2000) related to diesel cancer effects - Attached	12/2000
II-F-12		Emal from Karl Simon, DC, EPA to A. Lee, A. Farrell, Kevin Bromberg Re: Response to suggested edits in Faxes 1 and 2	4/14/03

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Category II-F: Interagency Review Materials

Document Number	Date Rcvd in Docket	Commenter, Addresses, Titles or Description, Etc.	Date of Document
II-F-13		Draft preamble, regulations, and RIA sent to OMB for formal interagency review. These documents have been archived on the CD located in the place for Document III-A-01. The filenames for these documents on the CD include this Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0026, 0012, and 0014.	3/6/03 & 3/7/03
II-F-14		Memo from Karl Simon to Art Fraas, OMB transmitting draft preamble and RIA sections for informal review	2/24/03
II-F-15		Memo from Karl Simon to Art Fraas, OMB transmitting draft preamble and RIA chapters 2,4,6,8,9, and 12 for informal review. These documents have been archived on the CD located in the place for Document III-A-01. The filenames for these documents on the CD include this Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0011 and 0013.	2/28/03
II-F-16		Memo from Karl Simon to Art Fraas, OMB transmitting draft RIA Chapters 5, 7, and App. G of Ch. 10 for informal review. These chapters have been incorporated into a single file with the other RIA chapters on the CD identified in Document Number II-F-15.	3/4/03
II-F-17		Fax from Art Fraas, OMB to Karl Simon	3/6/03
II-F-18		Fax from Amy Farrell, OMB to Karl Simon	4/1/03
II-F-19		Sign-in sheet, handout from Interagency briefing	3/18/03
II-F-20		Email comments from Barry McNutt, DoE	3/24/03
II-F-21		Comments from Department of Defense	3/24/03
II-F-22		Memo from Kevin Bromberg, SBA	3/26/03
II-F-23		Fax from Amy Farrel, OMB to Karl Simon	3/27/03
II-F-24		Fax from Amanda Lee, OMB to Karl Simon	4/9/03
II-F-25		Fax from Kevin Bromberg, SBA - Questions re: Nonroad Rule	2/26/03
II-F-26		Fax from Amy Farrell, OMB to Maureen Delaney	3/21/03
II-F-27		Fax from Edmond Toy, OMB to Karl Simon - questions on fuels	3/27/03
II-F-28		Fax from Kevin Bromberg, SBA to Karl Simon/E. Toy/Glenn Passavant	4/2/03

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II-F-29		Fax from Art Fraas, OMB to Karl Simon	4/3/03
II-F-30		Fax from Art Fraas, OMB to Karl Simon	4/4/03
II-F-31		Email from Edmond Toy, OMB	4/7/03
II-F-32		Fax from Maureen Delaney, EPA to Amanda Lee, OMB	4/7/03
II-F-33		Fax from Maureen Delaney, EPA to Amy Farrell, OMB	-----
II-F-34		Fax from Art Fraas, OMB to Bryan Hubbell, EPA	4/9/03
II-F-35		Fax from Amanda Lee, OMB to Karl Simon - NR refinery comments	4/10/03
II-F-36		Fax from Art Fraas, OMB to Chet France, EPA	4/9/03
II-F-37		Fax from Art Fraas, OMB to Margo Oge	4/10/03
II-F-38		Fax from Amanda Lee, OMB to Karl Simon - designate and track preamble language	4/12/03
II-F-39		Fax from Amanda Lee, OMB to Karl Simon - benefits edits	4/14/03
II-F-40		Fax from Amy Farrell, OMB to Karl Simon	4/14/03
II-F-41		Email from Karl Simon to Alison Ling, DOD	4/14/03
II-F-42		Fax from Kevin Bromberg, SBA to Maureen Delaney, EPA; Rich Theroux, OMB; Bill Charmley, EPA - SBA edit #3	4/14/03
II-F-43		Fax from Kevin Bromberg, SBA to Maureen Delaney, EPA; Rich Theroux, OMB; Bill Charmley, EPA - SBA edit #4	4/14/03
II-F-44		Fax from Kevin Bromberg, SBA to Maureen Delaney, EPA; Rich Theroux, OMB; Bill Charmley, EPA - SBA edit #5	4/14/03
II-F-45		Fax from Kevin Bromberg, SBA to Maureen Delaney, EPA; Rich Theroux, OMB; Bill Charmley, EPA - SBA edit #8	4/14/03
II-F-46		Fax from Karl Simon to Amanda Lee and Amy Farrell, OMB - 7% inserts for preamble	4/14/03
II-F-47		Note from Rich Theroux, OMB to EPA	4/14/03
II-F-48		Fax from Amanda Lee, OMB to Karl Simon - Chapter 12 Appendix B	4/14/03
II-F-49		Fax from Kevin Bromberg, SBA to Maureen Delaney, EPA; Rich Theroux, OMB; Bill Charmley, EPA - Ch. 12 RIA Revisions	4/15/03

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Document Number	Date Rcvd in Docket	Commenter, Addresses, Titles or Description, Etc.	Date of Document
II-F-50		Handout from meeting between OMB and Engine Manufacturers Association	1/7/03
II-F-51		Memorandum from Karl Simon to Air Docket Office - draft Nonroad NPRM files sent to OMB for informal review	2/10/03
II-F-52		Handout from SBA	4/1/03
II-F-53		Note from Kevin Bromberg, SBA to Amy Farrell et. al - discussion items for April 1 NR Cost Meeting	3/31/03
II-F-54		Note from OMB to EPA - diesel fuel sulfur	3/28/03
II-F-55		Email from Kevin Bromberg, SBA to Donald Kopinski, EPA et. al. - SBA RIA and Standards Discussion	3/26/03
II-F-56		Meetings summary and sign-in sheets for interagency meetings held on 3/24/03, 3/26/03, 3/28/03, 4/1/03, and 4/2/03,	-----
II-F-57		Email from Amy Farrell, OMB to Maureen Delaney, Karl Simon - NR reg options	3/18/03
II-F-58		reserved	
II-F-59		Email from Amy Farrell, OMB to Kevin Bromberg and others - Responses to engine questions	4/01/03
II-F-60		Memo to Air Docket Office from Karl Simon - Draft Nonroad Proposal Documents sent to OMB for informal review on Feb. 21, 2003	-----
II-F-61		Email from Amy Farrell, OMB to Kevin Bromberg and others - Revised Chapter 9 of Nonroad RIA	3/27/03
II-F-62		Note from OMB - RIA Chapter 3 and 12 comments	4/7/03
II-F-63		Draft preamble, regulations, and RIA sent to OMB for formal interagency review. These documents have been archived on the CD located in the place for Document III-A-01. The filenames for these documents on the CD include this Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0016, 0017, and 0018.	4/10/03
II-F-64		Email from Karl Simon, EPA, to Amy Farrell, OMB with an updated version of Chapter 9 of the Draft RIA. This document has been archived on the CD located in the place for Document III-A-01. The filename for this document on the CD includes its Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0015.	3/26/03

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Document Number	Date Rcvd in Docket	Commenter, Addresses, Titles or Description, Etc.	Date of Document
II-F-65		Email from Karl Simon, ASD, to Alan Stout, ASD Re: Revised Chapter 9 of nonroad RIA with 2 attachments	3/28/03

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Category II -G: Transcript and Summary of Preproposal Hearings

Document Number	Date Recd In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-G-01		See II-D-52	
II-G-02		See II-D-53	
II-G-03		See II-D-54	
II-G-04		See II-D-55	
II-G-05		See II-D-56	

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Category II -I: References Not Readily Available to the Public

Document Number	Date Recd In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-I-01		Policy Forum - "Air Pollution Concerns Not Changed by S-PLUS Flaw" by Kenneth A. Colburn and Philip R. S. Johnson	1/2003
II-I-02		U.S. Petroleum Refining, Assuring the Adequacy and Affordability of Cleaner Fuels, A report by the National petroleum Council Committee on Refining, Lee R. Raymond, Chair	6/2000
II-I-03		The Impact of Environmental Compliance Costs on U.S. Refining Profitability, Introduction and Summary	10/29/97
II-I-04		US Petroleum Refining, Assuring the Adequacy and Affordability of Cleaner Fuels, A report by the National Petroleum Council Committee on Refining, Lee R., Raymond, Chair (different information than II-I-02)	6/2000
II-I-05		"Can The US E&C Industry Meet the EPA's Low Sulfur Timetable? By Phillip Moncrief, Ralph Ragsdale of Bechtel Corporation, NPRM 2000 Annual Meeting, San Antonio, TX	3/26-28/00
II-I-06		Letter from Dr. Maureen L. Cropper, Advisory Council of Clean Air Compliance Analysis, Dr. Paul Ljoy, Advisory Council on Clean Air Compliance Analysis to Carol M. Browner, US EPA, Washington, DC Re: The Clean Air Act Amendments (CAAA) Section 812 Prospective Study of Costs and Benefits (1999): Advisory by the Health and Ecological Effects Subcommittee on Initial Assessments of Health and Ecological Effects; Part I	7/28/99
II-I-07		Subchronic Toxicity of 4-Vinylcyclohexene in Rats and Mice by Inhalation Exposure, Fundamental and Applied Toxicology 32, 1-10 (1996), Article No. 0101	1996
II-I-08		Synergistic action of the benzene metabolite hydroquinone on myelopoietic stimulating activity of granulocyte/macrophage colony-stimulating factor in vitro, Proc. Natl. Acad. Sci, USA	1/27/92
II-I-09		US EPA - Integrated Risk Information System, IRIS, Acrolein	4/14/03
II-I-10		US EPA - Aerosolized Acetaldehyde Induces Histamine-mediated Bronchoconstriction in Asthmatics	1993
II-I-11		US EPA - Mortality Among Industrial Workers Exposed to Formaldehyde, JNCI, Vol. 76, No. 6	6/1986
II-I-12		US EPA - Particulate Air Pollution as a Predictor of Mortality in a Prospective Study of US Adults, Am. J. Respir Crit Care Med, Vol 151	1995
II-I-13		Chemical Speciation of PM2.5 in Urban and Rural Areas, Venkatesh Rao, Neil Frank, Alan Frush, Fred Dimmick	1/13-15/02

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Control of Emissions from Land-Based Nonroad Diesel Engines
Category II -I: References Not Readily Available to the Public

Document Number	Date Recd In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-I-14		Formaldehyde - Chemical and Physical Data, International Agency for Research on Cancer	1982
II-I-15		Latest Findings on National Air Quality - 2001 Status and Trends	2001
II-I-16		See II-D-45	1/28/03
II-I-17		See II-D-46	12/17/02
II-I-18		See II-D-47	4/9/02
II-I-19		Air Conditioning and Source-Specific Particles as Modifiers of the Effect of PM10 on Hospital Admissions for Heart and Lung Disease, Nicole A. H. Janssen, et. al	1/2002
II-I-20		Association between mortality and indicators of traffic-related air pollution in the Netherlands: a cohort study, Gerard Hoek, et. al.	9/24/02
II-I-21		The Concentration-Response Relation between PM 2.5 and Daily Deaths, Joel Schwartz, Francine Laden, Antonella, Environmental Health Perspectives Volume 110, Number 10	10/2002
II-I-22		Association of Fine Particulate Matter from Different Sources with Daily Mortality in Six US Cities, Francine Laden, Lucas M. Neas, Douglas W. Dockery, Joel Schwartz, Environmental Health Perspectives, Volume 108, Number 10	10/2000
II-I-23		Epidemiologic Evidence for Asthma and Exposure to Air Toxics: Linkages between Occupational, Indoor, and Community Air Pollution Research, Ralph J. Delfino, Dept. of Medicine, University of California	8/2002
II-I-24		“Combining Nimo and Como Catalysts for Diesel Hydrotreaters” by Jean-Pierre Peries, Fierre-Emmanuel Jeanlouis, Mike Schmidt, Paul W. Vance, Acreon Catalysts, NPRA, AM-99-51, 1999 Annual Meeting, Texas	3/21-23/99
II-I-25		Cost Curves for Conventional HDS to Very Low Levels by Rick Wilson, BP Amoco, Houston, TX	2/2/99
II-I-26		Processes for Sulfur Management, Paulo Coelho	
II-I-27		Mid-Distillate Hydrotreating: The Perils and Pitfalls of Processing LCO, S. W. Mayo, Akzo Nobel Catalysts, Houston	
II-I-28		Production of Green Diesel in the BP Amoco Refineries, WEFA Conference, Berlin	6/2000

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Category II -I: References Not Readily Available to the Public

Document Number	Date Recd In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-I-29		Options to Meet Future European Diesel Demand and Specifications, L.A. Gerritsen, J.W.M. Sonnemans, S.L. Lee, M. Kimbara, Akzo Nobel/Nippon Ketjen Catalysts	
II-I-30			8/2/99
II-I-31		Advanced Distillate Hydroprocessing ASAT A Trifunctional HDAR/HDS/HDN Catalyst by Freddie Tungate, Don Hopkins, Dinah Huang, Jack Fletcher of United Catalysts Inc. and Ernst Kohler of Sud-Chemie AG, Munich Germany, presented at the NPRA 1999 Annual Meeting, Texas	March 21-23, 1999
II-I-32		Ultra Low Sulfur Diesel: Catalyst and Process Options, Tom Tippet of Haldor Topsoe, Inc, Orange, CA and Kim Knudsen, Barry Cooper of Haldor Topsoe A/S, Lyngy, Denmark. Presented at the NPRA 1999 Annual Meeting, Texas	March 21-23, 2003
II-I-33		FCC Light Cycle Oil: Liability or Opportunity? by Odette Eng, James Kennedy of UOP, Distillate and Resid Technologies, Des Plaines, IL, National Petrochemical & Refiners Association, Washington, DC, AM-00-28, Presented at the NPRA 2000 Annual Meeting, TX	March 26-28, 2000
II-I-34		A New Generation of Catalysts for High-Quality Fuels, Criterion	
II-I-35		Desulfurization by Selective Oxidation and Extraction of Sulfur-Containing Compounds to Economically Achieve Ultra-Low Proposed Diesel Fuel Sulfur Requirements, Steven E. Bonde, et. al.	
II-I-36		Presentation: Szorb, Phillips 66, "Advanced in Application of Phillips S. Zorb Technology"	
II-I-37		Hadder and Tallet, Documentation for the Oak Ridge National Laboratory Refinery Yield Refinery Model (ORNL-RYM).	2001
II-I-38		Petroleum Marketing Annual, Energy Information Administration.	1999
II-I-39		Department of Defense (DoD) Performance Specification, Inhibitor, Corrosion/Lubricity Improver, Fuel Soluble, , MIL-PRF-25017F, 10 November 1997, Superseding MIL-I-25017E.	15 June 1989
II-I-40		Chevron Products Diesel Fuel Technical Review, "Uses of Additives", re the impacts on fuel lubricity of current diesel fuel compositional requirements in California versus the rest of the nation. (copied from Chevron web site)	5/2/03

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Category II -I: References Not Readily Available to the Public

Document Number	Date Recd In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
II-I-41		"Standard Specification for Diesel Fuel Oils," American Society for Testing and Materials (ASTM) D 975-98b and "Standard Specification for Fuel Oils," ASTM D 396-98.	1998
II-I-42		See II-D-49	9/25/00,
II-I-43		See II-D-50	4/1/02
II-I-44		Email from the Alaska Department of Environmental Conservation to Richard Babst of EPA.	7/2/02
II-I-45		Proposal for a Directive of the European Parliament and of the Council amending Directive 97/68/EC on the approximation of the laws of the Member States relating to measures against the emission of gaseous and particulate pollutants from engines to be installed in nonroad mobile machinery. This document has been archived on the CD located in the place for Document III-A-01. The filename for this document on the CD includes its Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0027.	2002
II-I-46		Cost of Diesel Fuel Desulphurisation in Asian Refineries, Regional Workshop on BAQ 2002, Sub Workshop 4, Hong Kong,	12/17/02

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Non-Road Diesel Tier 4 and Non-Road Diesel Tier 3 Technology Review
Category III-A: Notice of Proposed Rulemaking

Document Number	Date Recd. In Docket	Commenter, Addresses, Titles, or Description, Etc.	Date of Document
III-A-01		Preamble for Notice of Proposed Rulemaking, signed by the Administrator. This document has been archived on the CD located in the place for Document III-A-01. The filename for this document on the CD includes its Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0023.	April 15, 2003
III-A-02		Proposed Regulations, signed by the Administrator. This document has been archived on the CD located in the place for Document III-A-01. The filename for this document on the CD includes its Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0024.	April 15, 2003

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Category III-B: Regulatory Support Documents for the Notice of Proposed Rulemaking

Document Number	Date Recd. In Docket	Commentor, Addresses, Titles, or Description, Etc.	Date of Document
III-B-01		Draft Regulatory Impact Analysis supporting the Notice of Proposed Rulemaking signed by the Administrator. This document has been archived on the CD located in the place for Document III-A-01. The filename for this document on the CD includes its Document Number. It is also available on EPA's web-based electronic docket as OAR-2003-0012-0025.	April 2003
III-B-02		EPA Memorandum from Trish Koman to Docket A-2001-28 Re: Errata Sheet for RIA Chapter 9—Cost-Benefit Analysis	May 7, 2003